

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/565,058  
Source: IFWP  
Date Processed by STIC: 1-24-06

# ***ENTERED***

IFW<sup>P</sup>

## RAW SEQUENCE LISTING

DATE: 01/24/2006

PATENT APPLICATION: US/10/565,058

TIME: 11:00:30

Input Set : A:\002.00270 Sequence Listing.txt

Output Set: N:\CRF4\01052006\J565058.raw

```

3 <110> APPLICANT: Hardie, David Grahame
4     Alessi, Dario
5     Boudeau, Jerome
7 <120> TITLE OF INVENTION: Methods For Use Of An LKB1/Strad7M025 Complex
9 <130> FILE REFERENCE: 002.00270
-> 11 <140> CURRENT APPLICATION NUMBER: US/10/565,058
-> 11 <141> CURRENT FILING DATE: 2006-01-17
11 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/003096
12 <151> PRIOR FILING DATE: 2004-07-16
14 <150> PRIOR APPLICATION NUMBER: GB 0316725.1
15 <151> PRIOR FILING DATE: 2003-07-17
17 <150> PRIOR APPLICATION NUMBER: GB 0330078.7
18 <151> PRIOR FILING DATE: 2003-12-20
20 <160> NUMBER OF SEQ ID NOS: 158
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 550
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo sapiens
29 <400> SEQUENCE: 1
31 Met Ala Thr Ala Glu Lys Gln Lys His Asp Gly Arg Val Lys Ile Gly
32 1          5          10          15
35 His Tyr Ile Leu Gly Asp Thr Leu Gly Val Gly Thr Phe Gly Lys Val
36          20          25          30
39 Lys Val Gly Lys His Glu Leu Thr Gly His Lys Val Ala Val Lys Ile
40          35          40          45
43 Leu Asn Arg Gln Lys Ile Arg Ser Leu Asp Val Val Gly Lys Ile Arg
44          50          55          60
47 Arg Glu Ile Gln Asn Leu Lys Leu Phe Arg His Pro His Ile Ile Lys
48 65          70          75          80
51 Leu Tyr Gln Val Ile Ser Thr Pro Ser Asp Ile Phe Met Val Met Glu
52          85          90          95
55 Tyr Val Ser Gly Gly Glu Leu Phe Asp Tyr Ile Cys Lys Asn Gly Arg
56          100         105         110
59 Leu Asp Glu Lys Glu Ser Arg Arg Leu Phe Gln Gln Ile Leu Ser Gly
60          115         120         125
63 Val Asp Tyr Cys His Arg His Met Val Val His Arg Asp Leu Lys Pro
64          130         135         140
67 Glu Asn Val Leu Leu Asp Ala His Met Asn Ala Lys Ile Ala Asp Phe
68 145         150         155         160
71 Gly Leu Ser Asn Met Met Ser Asp Gly Glu Phe Leu Arg Thr Ser Cys
72          165         170         175
75 Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Arg Leu Tyr

```

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76          180          185          190
79 Ala Gly Pro Glu Val Asp Ile Trp Ser Ser Gly Val Ile Leu Tyr Ala
80          195          200          205
83 Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp Asp His Val Pro Thr Leu
84          210          215          220
87 Phe Lys Lys Ile Cys Asp Gly Ile Phe Tyr Thr Pro Gln Tyr Leu Asn
88 225          230          235          240
91 Pro Ser Val Ile Ser Leu Leu Lys His Met Leu Gln Val Asp Pro Met
92          245          250          255
95 Lys Arg Ala Thr Ile Lys Asp Ile Arg Glu His Glu Trp Phe Lys Gln
96          260          265          270
99 Asp Leu Pro Lys Tyr Leu Phe Pro Glu Asp Pro Ser Tyr Ser Ser Thr
100          275          280          285
103 Met Ile Asp Asp Glu Ala Leu Lys Glu Val Cys Glu Lys Phe Glu Cys
104          290          295          300
107 Ser Glu Glu Glu Val Leu Ser Cys Leu Tyr Asn Arg Asn His Gln Asp
108 305          310          315          320
111 Pro Leu Ala Val Ala Tyr His Leu Ile Ile Asp Asn Arg Arg Ile Met
112          325          330          335
115 Asn Glu Ala Lys Asp Phe Tyr Leu Ala Thr Ser Pro Pro Asp Ser Phe
116          340          345          350
119 Leu Asp Asp His His Leu Thr Arg Pro His Pro Glu Arg Val Pro Phe
120          355          360          365
123 Leu Val Ala Glu Thr Pro Arg Ala Arg His Thr Leu Asp Glu Leu Asn
124          370          375          380
127 Pro Gln Lys Ser Lys His Gln Gly Val Arg Lys Ala Lys Trp His Leu
128 385          390          395          400
131 Gly Ile Arg Ser Gln Ser Arg Pro Asn Asp Ile Met Ala Glu Val Cys
132          405          410          415
135 Arg Ala Ile Lys Gln Leu Asp Tyr Glu Trp Lys Val Val Asn Pro Tyr
136          420          425          430
139 Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr Tyr Ser Lys
140          435          440          445
143 Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr Leu Leu Asp
144          450          455          460
147 Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser Gly Thr Ala
148 465          470          475          480
151 Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser Cys Gln Arg
152          485          490          495
155 Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu Val Ser Leu
156          500          505          510
159 Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp Leu Thr Pro
160          515          520          525
163 Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys Ala Asn Leu
164          530          535          540
167 Ile Lys Ile Leu Ala Gln
168 545          550
171 <210> SEQ ID NO: 2
172 <211> LENGTH: 550

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Input Set : A:\002.00270 Sequence Listing.txt

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173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 2
178 Met Ala Thr Ala Glu Lys Gln Lys His Asp Gly Arg Val Lys Ile Gly
179 1 5 10 15
182 His Tyr Ile Leu Gly Asp Thr Leu Gly Val Gly Thr Phe Gly Lys Val
183 20 25 30
186 Lys Val Gly Lys His Glu Leu Thr Gly His Lys Val Ala Val Lys Ile
187 35 40 45
190 Leu Asn Arg Gln Lys Ile Arg Ser Leu Asp Val Val Gly Lys Ile Arg
191 50 55 60
194 Arg Glu Ile Gln Asn Leu Lys Leu Phe Arg His Pro His Ile Ile Lys
195 65 70 75 80
198 Leu Tyr Gln Val Ile Ser Thr Pro Ser Asp Ile Phe Met Val Met Glu
199 85 90 95
202 Tyr Val Ser Gly Gly Glu Leu Phe Asp Tyr Ile Cys Lys Asn Gly Arg
203 100 105 110
206 Leu Asp Glu Lys Glu Ser Arg Arg Leu Phe Gln Gln Ile Leu Ser Gly
207 115 120 125
210 Val Asp Tyr Cys His Arg His Met Val Val His Arg Asp Leu Lys Pro
211 130 135 140
214 Glu Asn Val Leu Leu Asp Ala His Met Asn Ala Lys Ile Ala Asp Phe
215 145 150 155 160
218 Gly Leu Ser Asn Met Met Ser Asp Gly Glu Phe Leu Arg Thr Ser Cys
219 165 170 175
222 Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Arg Leu Tyr
223 180 185 190
226 Ala Gly Pro Glu Val Asp Ile Trp Ser Ser Gly Val Ile Leu Tyr Ala
227 195 200 205
230 Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp Asp His Val Pro Thr Leu
231 210 215 220
234 Phe Lys Lys Ile Cys Asp Gly Ile Phe Tyr Thr Pro Gln Tyr Leu Asn
235 225 230 235 240
238 Pro Ser Val Ile Ser Leu Leu Lys His Met Leu Gln Val Asp Pro Met
239 245 250 255
242 Lys Arg Ala Ser Ile Lys Asp Ile Arg Glu His Glu Trp Phe Lys Gln
243 260 265 270
246 Asp Leu Pro Lys Tyr Leu Phe Pro Glu Asp Pro Ser Tyr Ser Ser Thr
247 275 280 285
250 Met Ile Asp Asp Glu Ala Leu Lys Glu Val Cys Glu Lys Phe Glu Cys
251 290 295 300
254 Ser Glu Glu Glu Val Leu Ser Cys Leu Tyr Asn Arg Asn His Gln Asp
255 305 310 315 320
258 Pro Leu Ala Val Ala Tyr His Leu Ile Ile Asp Asn Arg Arg Ile Met
259 325 330 335
262 Asn Glu Ala Lys Asp Phe Tyr Leu Ala Thr Ser Pro Pro Asp Ser Phe
263 340 345 350
266 Leu Asp Asp His His Leu Thr Arg Pro His Pro Glu Arg Val Pro Phe
267 355 360 365

```

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Input Set : A:\002.00270 Sequence Listing.txt

Output Set: N:\CRF4\01052006\J565058.raw

```

270 Leu Val Ala Glu Thr Pro Arg Ala Arg His Thr Leu Asp Glu Leu Asn
271      370      375      380
274 Pro Gln Lys Ser Lys His Gln Gly Val Arg Lys Ala Lys Trp His Leu
275 385      390      395      400
278 Gly Ile Arg Ser Gln Ser Arg Pro Asn Asp Ile Met Ala Glu Val Cys
279      405      410      415
282 Arg Ala Ile Lys Gln Leu Asp Tyr Glu Trp Lys Val Val Asn Pro Tyr
283      420      425      430
286 Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr Tyr Ser Lys
287      435      440      445
290 Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr Leu Leu Asp
291      450      455      460
294 Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser Gly Thr Ala
295 465      470      475      480
298 Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser Cys Gln Arg
299      485      490      495
302 Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu Val Ser Leu
303      500      505      510
306 Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp Leu Thr Pro
307      515      520      525
310 Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys Ala Asn Leu
311      530      535      540
314 Ile Lys Ile Leu Ala Gln
315 545      550
318 <210> SEQ ID NO: 3
319 <211> LENGTH: 550
320 <212> TYPE: PRT
321 <213> ORGANISM: Homo sapiens
323 <400> SEQUENCE: 3
325 Met Ala Thr Ala Glu Lys Gln Lys His Asp Gly Arg Val Lys Ile Gly
326 1      5      10      15
329 His Tyr Ile Leu Gly Asp Thr Leu Gly Val Gly Thr Phe Gly Lys Val
330      20      25      30
333 Lys Val Gly Lys His Glu Leu Thr Gly His Lys Val Ala Val Lys Ile
334      35      40      45
337 Leu Asn Arg Gln Lys Ile Arg Ser Leu Asp Val Val Gly Lys Ile Arg
338      50      55      60
341 Arg Glu Ile Gln Asn Leu Lys Leu Phe Arg His Pro His Ile Ile Lys
342 65      70      75      80
345 Leu Tyr Gln Val Ile Ser Thr Pro Ser Asp Ile Phe Met Val Met Glu
346      85      90      95
349 Tyr Val Ser Gly Gly Glu Leu Phe Asp Tyr Ile Cys Lys Asn Gly Arg
350      100      105      110
353 Leu Asp Glu Lys Glu Ser Arg Arg Leu Phe Gln Gln Ile Leu Ser Gly
354      115      120      125
357 Val Asp Tyr Cys His Arg His Met Val Val His Arg Asp Leu Lys Pro
358      130      135      140
361 Glu Asn Val Leu Leu Asp Ala His Met Asn Ala Lys Ile Ala Asp Phe
362 145      150      155      160

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Input Set : A:\002.00270 Sequence Listing.txt

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```

365 Gly Leu Ser Asn Met Met Ser Asp Gly Glu Phe Leu Arg Thr Ser Cys
366          165          170          175
369 Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Arg Leu Tyr
370          180          185          190
373 Ala Gly Pro Glu Val Asp Ile Trp Ser Ser Gly Val Ile Leu Tyr Ala
374          195          200          205
377 Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp Asp His Val Pro Thr Leu
378          210          215          220
381 Phe Lys Lys Ile Cys Asp Gly Ile Phe Tyr Thr Pro Gln Tyr Leu Asn
382 225          230          235          240
385 Pro Ser Val Ile Ser Leu Leu Lys His Met Leu Gln Val Asp Pro Met
386          245          250          255
389 Lys Arg Ala Ser Ile Lys Asp Ile Arg Glu His Glu Trp Phe Lys Gln
390          260          265          270
393 Asp Leu Pro Lys Tyr Leu Phe Pro Glu Asp Pro Ser Tyr Ser Ser Thr
394          275          280          285
397 Met Ile Asp Asp Glu Ala Leu Lys Glu Val Cys Glu Lys Phe Glu Cys
398          290          295          300
401 Ser Glu Glu Glu Val Leu Ser Cys Leu Tyr Asn Arg Asn His Gln Asp
402 305          310          315          320
405 Pro Leu Ala Val Ala Tyr His Leu Ile Ile Asp Asn Arg Arg Ile Met
406          325          330          335
409 Asn Glu Ala Lys Asp Phe Tyr Leu Ala Thr Ser Pro Pro Asp Ser Phe
410          340          345          350
413 Leu Asp Asp His His Leu Thr Arg Pro His Pro Glu Arg Val Pro Phe
414          355          360          365
417 Leu Val Ala Glu Thr Pro Arg Ala Arg His Thr Leu Asp Glu Leu Asn
418          370          375          380
421 Pro Gln Lys Ser Lys His Gln Gly Val Arg Lys Ala Lys Trp His Leu
422 385          390          395          400
425 Gly Ile Arg Ser Gln Ser Arg Pro Asn Asp Ile Met Ala Glu Val Cys
426          405          410          415
429 Arg Ala Ile Lys Gln Leu Asp Tyr Glu Trp Lys Val Val Asn Pro Tyr
430          420          425          430
433 Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr Tyr Ser Lys
434          435          440          445
437 Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr Leu Leu Asp
438          450          455          460
441 Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser Gly Thr Ala
442 465          470          475          480
445 Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser Cys Gln Arg
446          485          490          495
449 Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu Val Ser Leu
450          500          505          510
453 Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp Leu Thr Pro
454          515          520          525
457 Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys Ala Asn Leu
458          530          535          540
461 Ile Lys Ile Leu Ala Gln

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 01/24/2006  
PATENT APPLICATION: US/10/565,058      TIME: 11:00:31

Input Set : A:\002.00270 Sequence Listing.txt  
Output Set: N:\CRF4\01052006\J565058.raw

valid <213> Response:

is of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

seq#:16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,51,52  
seq#:53,54,55,62,78,97,98,99,100,101,102,103,104,105,106,107,108,157

## VERIFICATION SUMMARY

DATE: 01/24/2006

PATENT APPLICATION: US/10/565,058

TIME: 11:00:31

Input Set : A:\002.00270 Sequence Listing.txt

Output Set: N:\CRF4\01052006\J565058.raw

l1 M:270 C: Current Application Number differs, Replaced Current Application No

l1 M:271 C: Current Filing Date differs, Replaced Current Filing Date